

CRYPTOGAMIC SOCIETY

OF

SCOTLAND.

THIRTY-FOURTH AND THIRTY-FIFTH
ANNUAL CONFERENCES,
STRANRAER AND CRIEFF.

1909; 1910.

EDINBURGH:

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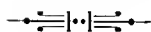
THE Society met at Stranraer for its Thirty-fourth Annual Conference on 21st September 1909. On that day Lochnaw was visited ; on the 22nd, Kirrouchtrie and Cumloden, and on the 23rd, Castle Kennedy.

In 1910 the Meeting took place at Crieff on September 27th, and the places visited on the three successive days were Drummond Castle, Abercairny and Ochtertyre.

Lists of Fungi for both Meetings are here published together, as the Stranraer list was not made up in time to be printed last year. Following the lists of Fungi for each year will be found additional lists of Cryptogamous plants in accordance with the Society's Resolution referred to at p. 12.

The thanks of the Society are due to Mr. D. A. Boyd, Salteoats, for his careful and laborious preparation of these lists, especially in the case of the minute Fungi. Every effort has been made to insure accuracy.

LIST OF FUNGI, 1909.



LOCALITIES :

- | | |
|--------------------|-------------------------------|
| 1. LOCHNAW. | 2. KIRROUGHTRIE AND CAMLODEN. |
| 3. CASTLE KENNEDY. | 4. STRANRAER. |

Amanita—

muscaria (Linn.) Pers. 2, 3.
 rubescens, Fr. 1, 2, 3.

spissa, Fr. 1.

Amanitopsis—

vaginata (Bull.) Roze, 1, 2, 3.

Lepiota—

procera (Scop.) Fr. 1.
 rhacodes (Vitt.) Fr. 1.

cristata (A. & S.) Fr. 1.
 granulosa (Batsch) Fr. 1, 2, 3.

Armillaria—

mellea (Vahl.) Fr. 1, 2, 3.

mucida (Schradi.) Fr. 1, 2, 3.

Tricholoma—

*rutilans (Schæff.) Fr. 1, 2, 3.
 virgatum, Fr. 1, 2, 3.

terreum (Schæff.) Fr. 3.

Clitocybe—

cyathiformis (Bull.) Fr. 2.
 infundibuliformis (Schæff.) Fr.

fragrans (Sow.) Fr. 1, 2.

Laccaria—

laccata (Scop.) Berk. 1, 2, 3.

var. amethystina (Scop.) Berk.
 1, 2, 3.

Collybia—

radicata (Rehhan) Fr. 1, 2.
 maculata (A. & S.) Fr. 1.

confluens (Pers.) Fr. 1, 3.
 dryophila (Bull.) Fr.

Mycena—

elegans (Pers.) Fr.
 pura (Pers.) Fr. 1, 2.
 rugosa Fr. 1.
 galericulata, Scop. 1, 2.
 polygramma (Bull.) Pers. 1.
 alcalina, Fr. 1, 2.
 ammoniaca, Fr. 2.

hematopa, Pers. 1.
 sanguinolenta (A. & S.) Fr. 1.
 galopa, Pers. 1, 2.
 epipterygia (Scop.) Pers. 2.
 tenerrima (Berk.)
 pterigena, Fr. 2.

Omphalia—

umbellifera (Linn.) Fr. 1, 2.

fibula (Bull.) Fr. 1, 2.
 do. var Swartzii, Fr.

Pluteus—

cervinus (Schæff.) Fr. 2.

Entoloma—

jubatum, Fr. 2.
rhodopolium, Fr. 2.

sericeum (Bull.) Fr. 1.

Clitopilus—

prunulus (Scop.) Fr. 2.

Leptonia—

lampropa, Fr. 3.

Nolanea

pascua (Pers.) Fr. 1, 2, 3.

Pholiota—

squarrosa (Müll.) Fr.
flammans, Fr. 1.

marginata (Batsch) Fr. 1, 2.

Inocybe—

lanuginosa (Bull.) Fr. 1.
rimosa (Bull.) Fr. 1, 2.

geophylla (Sow.) Fr. 1, 2, 3.

Hebeloma—

glutinosum (Lindgr.) Fr. 2.

Flammula—

carbonaria, Fr. 1, 3.
inopa, Fr. 1, 2.

sapiuea, Fr. 1, 2, 3.
flavida (Schæff.) Fr. 1.

Galera—

tenera (Schæff.) Fr. 1.

hypnorum (Schränk) Fr. 1, 3.

Crepidotus—

mollis (Schæff.) Fr. 2.

Agaricus—

campestris, Linn. 1, 2.

Stropharia—

æruginea (Curt.) Fr. 2.

semiglobata (Batsch) Fr. 1, 2, 3.

Hypholoma—

sublateritium, Fr. 1, 2.
fasciculare (Huds.) Fr. 1, 2, 3.

appendiculatum (Bull.) Fr. 2.

Psilocybe—

semilanceata, Fr. 1, 2, 3.

Anellaria—

separata (Linn.) Karst. 3.

Panæolus—

campanulatus (Linn.) Fr. 1.

Psathyrella—

disseminata (Pers.) Fr. 1.

atomata, Fr. 1.

Coprinus—

micaceus (Bull.) Fr. 1, 2.
lagopus, Fr. 1.

plicatilis (Curt.) Fr. 1, 2.

Cortinarius—

(Dermocybe) cinnamomeus (Linn.)
Fr. 1.

(Telemonia) torvus Fr. 1.
palaceus Fr. 2.

Gomphidius—

glutinosus (Schæff.) Fr. 1.

Paxillus—

giganteus (Sow.) Fr. 2.

involutus (Batsch) Fr. 1.

Hygrophorus—

hypothecus, Fr. 1, 3.

pratensis (Pers.) Fr. 2, 3.

virginus (Wulf) Fr. 2, 3.

lætus (Pers.) Fr. 3.

ceraceus (Wulf) Fr. 1, 3.

coccineus, Fr.

puniceus, Fr. 2, 3.

conicus (Scop.) Fr. 2, 3.

chlorophanus, Fr. 1.

psittacinus (Schæff.) Fr.

unguinus, Fr. 1.

Lactarius—

torminosus (Schæff.) Fr. 1, 2.

blennius, Fr. 1, 2, 3.

deliciosus (Linn.) Fr. 1, 3.

quietus, Fr. 2, 3.

rufus (Scop.) Fr. 1, 2.

glyciosmus, Fr. 1, 2.

mitissimus, Fr. 1.

subdulcis (Bull.) Fr. 1, 3.

Russula—

nigricans (Bull.) Fr. 1, 2, 3.

drimeia, Cooke. 1, 2, 3.

cyanoxantha (Schæff.) Fr. 1, 2, 3.

fœtus, Pers. 2.

fellea, Fr. 1, 3.

emetica, Fr. 1, 3.

ochroleuca, Fr. 1, 3.

Cantharellus—

cibarius, Fr. 1, 2, 3.

Marasmius—

oreades (Bolt.) Fr. 4.

rotula (Scop.) Fr. 1.

Lentinus—

cochleatus, Fr. 2.

Panus—

stipticus (Bull.) Fr. 2.

Boletus—

luteus, Linn. 1, 2.

elegans, Schum. 3.

bovinus, Linn. 2.

piperatus, Bull. 1.

chrysenteron, Bull. 1, 3.

subtomentosus, Linn. 1, 3,

edulis, Bull. 2, 3.

luridus, Schæff. 2, 3.

scaber, Bull. 1, 2.

Polyporus—

squamosus (Huds.) Fr. 1, 2.

picipes, Fr. 1.

epileucus, Fr. 1.

betulinus (Bull.) Fr. 2.

Fomes—

annosus, Fr. 1, 3.

fomentarius, Fr. 2, 3.

connatus, Fr.

Polystictus—

versicolor (Linn.) Fr. 3.

Poria—

vaporaria, Fr. 1.

sanguinolenta, A. & S. 1, 2.

Dædalea—

quercina (Linn.) Pers. 2.

Hydnum—

repandum, Linn. 1, 3.

Grandinia—

granulosa (Pers.) Fr. 2.

Thelephora—

laciniata, Pers. 1.

Stereum—

hirsutum (Willd.) Pers. 1.

spadicum (Pers.) Fr. 1.

Clavaria—

cristata, Holmsk. 2.

rugosa, Bull. 1, 3.

inæqualis Müll. 3.

fumosa, Pers. 1.

Calocera—

viscosa (Pers.) Fr. 2.

cornea (Batsch) Fr. 2.

Lycoperdon—

gemmatum, Fl.D. 1, 3.

perlatum, Pers. 1.

Scleroderma—

vulgare, Fr. 1, 2, 3.

Uromyces—polygoni (Pers.) Wint. As Uredo
on *Polygonum aviculare*, 4.valerianæ (Schum.) Wint. As
Uredo on *Valeriana officinalis*, 2.**Puccinia—**galii (Pers.) Wint. On *Galium*
verum, 3.violæ (Schum.) Wint. On *Viola*
Riviniana, 1, 2, 3.menthæ, Pers. On *Mentha*, 2.poarum, Nielsen. As *Æcidium*
on *Tussilago Farfara*, 4.rubigo-vera (D.C.) Wint. As Uredo
on *Holeus lanatus*, &c., 1, 2.obtegens, Tul. On *Cnicus*
arvensis, 1, 4.centaurææ, Mart. On *Centaurea*
nigra, 3.oblongata (Link) Wint. As Uredo
on *Luzula maxima*, 1 ; on *L.*
campestris, 2.lychnidearum, Link. On *Lychnis*
dioica, 3.chrysosplenii, Grev. On *Chry-*
sosplenium oppositifolium, 1.buxi, D.C. On *Buxus semper-*
virens, 1.annularis (Strauss) Wint. On
Teucrium Scorodonia, 2.**Phragmidium—**violaceum (Schultz) Wint. On
Rubus fruticosus, 3, 4.subcorticatum (Schränk) Wint.
On *Rosa*, 3, 4.rubi-idæi (Pers.) Wint. On *Rubus*
Idæus, 3.**Melampsora—**farinosa (Pers.) Wint. As Uredo
on *Salix Caprea*, 1, 3, 4.betulina (Pers.) Desm. As Uredo
on *Betula alba*, 1.vacciniorum (Link) Schröt. As
Uredo on *Vaccinium Myr-*
tillus, 3.**Coleosporium—**sonchi-arvensis (Pers.) Lév. On
Sonchus oleraceus, 4.tussilaginis (Pers.) Lév. On *Tus-*
silago Farfara, 4.**Milesia—**polypodii, B. White On *Lomaria*
Spicant, 1.

Æcidium—

elatinum, A. & S. On *Pinus picea*, 1, 2.

Cystopus—

candidus (Pers.) Lév. On *Cochlearia Armoracia*, 3.

Plasmopara—

nivea (Ung.) Schröt. On *Ægopodium*, 1.

Peronospora—

arenariæ (Berk.) Tul. On *Arenaria peploides*, 4.

Synchytrium—

stellariæ, Fekl. On *Stellaria media*, 2.

Protomyces—

macrosporus, Unger. On *Ægopodium*, 2, 4.

Entyloma—

Fergussoni (B. & Br.) Plow. On *microsporum* (Ung.) Schröt. On
Myosotis arvensis, 2. *Ranunculus repens*, 1, 2.

Podosphæra—

oxyacanthæ (D.C.) De Bary. On *Crataegus Oxyacantha*, 3, 4.

Erysiphe—

cichoracearum, D.C. On *Arctium minus*, 1.

Microsphæra—

grossulariæ (Wallr.) Lév. On *Ribes Grossularia*, 3, 4.

Cordyceps—

militaris (Linn.) Link. On a dead lepidopterous pupa, 3.

Rhopoglyphus—

filicinus (Fr.) Fekl. On dead stipites of *Pteris Aquilina*, 2.

Phyllachora—

ulmi (Duv.) Fekl. On leaves of *podagrariæ* (Roth) Karst. On
Ulmus montana, 1, 2. leaves of *Ægopodium*, 4.
junci (Fr.) Fekl. On culms of
Juncus communis, 2.

Leptosphæria—

acuta (Moug.) Karst. On dead *rusci* (Wallr.) Sacc. On dead
stems of *Urtica dioica*, 2. phyllodes of *Ruscus aculeatus*, 3.

Diaporthe—

pulla, Ntke. On dead branches of *Hedera Helix*, 2.

Stigmatea—

Robertiani, Fr. On living leaves of *Geranium Robertianum*, 1, 3.

Sphærella—

innummerella, Karst. On leaves of *Comarum palustre*, 3.

Xylaria—

Hypoxylon (Linn.) Grev. On rotten stumps, 1.

Hypoxylon—

coccineum, Bull. On dead bark of *Fagus*, 1.

Diatrype—

disciformis (Hoffm.) Fr. On dead bark of *Fagus*, 2.

Lophodermium—

cladophilum (Lév.) Rehm. On pinastri (Schrad.) Chev. On dead
dead twigs of *Vaccinium* leaves of *Pinus sylvestris*, 3.
Myrtillus, 3.

Trochila—

craterium, Fr. On dead leaves of lauro-cerasi (Desm.) Fr. On dead
Hedera Helix, 1, 3. leaves of *Prunus Lauro-cerasus*,
1, 3.

Stegia—

ilicis, Fr. On dead leaves of *Ilex Aquifolium*, 3.

Pseudopeziza—

trifolii (Bern.) Fekl. On living leaves of *Trifolium repens*, 1, 3, 4.

Orbilia—

marina (Phil.) Boyd. On stranded fronds of *Fucus vesiculosus*, 4.

Coryne—

sarcoides (Jacq.) Tul. On rotten urnalis (Nyl.) Karst. On rotten
trunks, 2. trunks, 2.

Lachnea—

scutellata (Linn.) Gill. On a rotten trunk, 1.

Dasyscypha—

calycina (Schum.) Fekl. On dead branches of *Larix*, 3.

Peziza—

badia, Pers. On the ground, 1.

Leotia—

lubrica, Pers. On the ground, 1.

Geoglossum—

difforme, Fr. On the ground amongst grass, 3.

Phyllosticta—

sambuci, Desm. On *Sambucus nigra*, 4.

Actinonema—

rose (Lib.) Fr. On leaves of *Rosa*, 2, 3.

Darluca—

filum (Biv.) Cast. On *Uredo oblongata*, 1.

Coniothyrium—

Boydeanum, A. L. Sm. On dead bark of *Fuchsia*, 1, 3.

Septoria—

stellariæ, Rob. & Desm. On hydrocotyles, Desm. On *Hydro-*
Stellaria media, 2. *cotyle vulgaris*, 2.
podagrarie, Lasch. On *Egopo-* stachydis, Rob. & Desm. On
dium, 2, 3, 4. *Stachys sylvatica*, 3.

Phleospora—

ulmi (Fr.) Wallr. On leaves of oxyacanthæ (K. & S.) Wallr. On
Ulmus montanus, 2. leaves of *Crataegus Oxyacantha*,
4.

Melasmia —

acerina, Lév. On leaves of *Acer Pseudo-platanus*, 1, 2, 3.

Glæosporium—

paradoxum (De Not.) Fekl. On salicis, West. On living leaves of
dead leaves of *Hedera Helix*, 1. *Salix Caprea*, 4.

Libertella—

faginea, Desm. On dead bark of *Fagus sylvatica*, 1.

Thyrsidium—

hedericolum, De Not. On dead bark of *Hedera Helix*, 1.

Sepedonium—

chrysospermum (Bull.) Fr. On rotten *Boleti*, 3.

Didymaria—

Ungeri Corda. On *Ranunculus repens*, 1.

Ramularia—

violæ, Trail. On *Viola Riviniana*, calea (Desm.) Cés. On *Nepeta*
1. *Glechoma*, 2, 3.
urticæ, Cés. On *Urtica dioica*, 4. ajugæ, Saec. On *Ajuga reptans*, 1.

Hormiscium—

pithyophilum (Nees) Saec. On dead bark of *Taxus buccata*, 3.

Polythrincium—

trifolii, Kze. & Sehm On living leaves of *Trifolium repens*, 3, 4.

Cercospora—

mercurialis, Fekl. On leaves of *Mercurialis perennis*, 1, 2, 3.

Coniothecium—

amentacearum, Corda. On dead twigs of *Salix*, 3.

Tetraploa—

aristata, B. & Br. On a dead leaf of *Gyncrium*, 3.

Illosporium—

roseum, Mart. On *Parmelia saxatilis*, 2.

ADDITIONAL RECORDS OF SCOTTISH CRYPTOGRAMIC PLANTS, 1909.

THE following list has been compiled in accordance with a Resolution adopted by the Society at the Conference held at Inveraray in 1907, to the effect that there should be included in the Society's Annual Report such additional information regarding new records of Scottish Cryptogamic Plants reported during the year as may be available and deemed suitable for publication.

PUBLISHED SOURCES OF RECORDS.

- I. Transactions of the British Mycological Society, Vol. III., Part 2 (1909).
 - II. The Glasgow Naturalist, Vol. I. (1909).
 - III. Do. do. Vol. II., No. 1 (1909).
 - IV. Transactions and Proceedings of the Perthshire Society of Natural Science, Vol. V., Part 1 (1909).
 - V. Transactions of the Edinburgh Field Naturalists' and Microscopical Society, Vol. VI., Part 2 (1909).
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FUNGI.

- Collybia lacerata*, Laseh.—Clyde. Arran ; in September ; W. R. Baxter (III., 25).
- Pholiota curvipes*, A. & S.—Clyde. Arran ; in September ; *Ibid.*
- Naucoria erinacea*, Fr.—Clyde. On dead branches of rose ; Kilwinning, Ayrshire ; in September ; D. A. Boyd (II., 52).
- Coprinus bulbillosus*, Pat.—Cromarty. On horse-dung ; Strathpeffer, Ross-shire ; in September ; Mrs. Carleton Rea (I., 126).
- C. platypus*, Berk. & Cke.—Tay. On dead stems of *Phalaris arundinacea* ; near Perth ; James Menzies (I., 126).
- Panus torulosus* (Pers.) Fr. — Clyde. Brodick, Arran ; in September ; W. R. Baxter (III., 26).
- Fomes lucidus*, Fr.—Clyde. On old yew trees ; Inchlonaig, Loch Lomond ; H. B. Shields (II., 138).

- Odontia alliacea*, Weinm.—Clyde. On a fallen trunk ; Corsinkell Glen, Stevenston, Ayrshire ; in October ; D. A. Boyd (I., 128 ; II., 110).
- Tremellodon gelatinosum*, Pers.—Forth. Humber Woods, Aberdour, Fifeshire ; in October ; Mr. Douglas (V., 177).
- Hymenogaster tener*, Berk.—Tay. The peridium protruded through sandy soil covered with moss in Bargarvie Den, Perthshire ; in August ; James Menzies.
- Uromyces caryophyllinus*, Schröt.—Clyde. As *Uredo* on carnation-leaves at Finlayston, Renfrewshire ; in August ; D. A. Boyd (I., 122 ; II., 110).
- Puccinia Schneideri*, Schröt.—Clyde. On *Thymus Serpyllum* ; Noddsdale Glen, Largs, Ayrshire ; in September ; D. A. Boyd (II., 111).
- P. millefolii*, Fekl.—Clyde. On *Achillea Millefolium* ; Ardeer Sands, Stevenston, Ayrshire ; in August ; *Ibid.*
- Melampsora pustulata* (Pers.) Wint.—Clyde. As *Uredo pustulata*, Pers., on leaves of *Epilobium* ; Possil Marsh, Lanarkshire ; in autumn ; *Ibid.*
- Physoderma heleocharidis*, Schröt.—Clyde. On living culms of *Scirpus palustris* ; Ardeer Sands, Stevenston, Ayrshire ; in August ; D. A. Boyd (I., 111 ; II., 111).
- Synchytrium aureum*, Schröt.—Clyde. On *Prunella vulgaris* ; Loehwinnoch, Renfrewshire. On *Plantago lanceolata* ; Ardrossan, Ayrshire. On *Thymus Serpyllum* ; Glen Falloch, Perthshire. In summer and autumn ; D. A. Boyd (II., 111).
- S. taraxaci*, De Bary & Wor.—Solway. On *Taraxacum officinale* ; Durisdeer, Dumfriesshire ; in May ; D. A. Boyd (II., 2).
- Peronospora chrysosplenii*, Fekl.—Clyde. On *Chrysosplenium alternifolium* ; Hyndog Glen, Dalry, Ayrshire ; in May ; D. A. Boyd (I., 111 ; II., 111).
- Entyloma achilleæ*, P. Magnus.—Clyde. On *Achillea Millefolium* ; St. Blane's Chapel, Island of Bute ; in August ; D. A. Boyd (I., 122 ; II., 111).
- Ustilago flosculorum* (D.C.) Wint.—Clyde. In anthers of *Scabiosa succisa* ; Ardkinglas, Loch Fyne, Argyllshire ; in September ; D. A. Boyd (II., 111).
- Urocystis Fischeri*, Körn.—Clyde. On leaves of *Carex glauca* ; West Kilbride, Ayrshire ; in August ; *Ibid.*
- Ascomyces aureus* (Fr.) Magnus.—Clyde. On living leaves of *Populus* ; West Kilbride, Ayrshire ; in autumn ; *Ibid.*
- Keithia tetraspora* (Phil. & Keith) Sacc.—Tay. On living juniper-leaves ; Dunkeld, Perthshire ; in May and June 1906 ; C. M'Intosh.
- Coccophacidium pini* (A. & S.) Rehm.—Tay. On dead fir-branches ; Inver Wood, Perthshire ; in May 1908 (seen twice only) ; C. M'Intosh.
- Cocconyces quadratus* (Schm.) Karst.—Clyde. On dead twigs of *Vaccinium Myrtillus* ; Noddsdale Glen, Largs, Ayrshire ; in September ; D. A. Boyd (II., 112).
- Phacidium abietinum*, Kze. & Schm.—Tay. On dead leaves of *Pinus sylvestris*, while yet attached to branches lying on the ground ; Kinfauns, Perthshire ; in March ; James Menzies (IV., xii.)
- Pseudophacidium Smithianum*, Boud.—Solway. Durisdeer, Dumfriesshire ; in May ; D. A. Boyd (II., 3).—Clyde. Kilbirnie, Ayrshire ; in May ; D. A. Boyd (I., 81 ; II., 112).—Forth. Redford Woods, Currie, Midlothian ; in October ; D. A. Boyd (V., 177).—West Ross, Loch Alsh, Ross-shire ; in autumn ; Miss A. Lorrain Smith (I., 81).—In all localities on dead leaves of *Empetrum nigrum*.

- Biatorrella resinæ* (Fr.) Mudd.—Tay. On blistered parts of fir-trees from which resin exuded; Inver Wood, Perthshire; 8th July 1907; C. M'Intosh.
- Cenangium amœnum* (Tul.) Mass.—Tay. On the swollen part at the junction of living and dead bark on partially scorched oak-stems and branches; Inver Wood, Perthshire; C. M'Intosh.
- C. abietis* (Pers.) Rehm.—Tay. On dead fir-twigs and branches; Inver Wood, Perthshire; C. M'Intosh.
- Scleroderris ribesia* (Pers.) Karst.—Tay. On dead currant-stems; Dunkeld, Perthshire; C. M'Intosh.
- S. Houghtoni* (Phil.) Mass.—On dead Portugal-laurel; Murthly, Perthshire; C. M'Intosh.
- S. livida* (B. & Br.) Mass.—Tay; on dead bark of Douglas fir; Murthly, Perthshire; C. M'Intosh.
- Schweinitzia rufo-olivacea* (A. & S.) Mass.—Tay. On bird cherry; Inver Wood, Perthshire; C. M'Intosh.
- Bulgariella pulla* (Fr.) Karst.—Tay. On decorticated fir; Inver Wood; C. M'Intosh.
- Orbilina luteo-rubella* (Nyl.) Karst.—Tay. On dead wood lying in a ditch; Bonhard, Perthshire; in July; James Menzies.
- Ascobolus vinosus*, Berk.—Tay. On rabbit-dung; Parkfield, Perthshire; in April; James Menzies.
- A. viridis*, Curr.—Tay. On damp soil; not uncommon near Perth; in summer and autumn; James Menzies.
- A. atro-fuscus*, Phil. & Plow.—Tay. On charcoal and burned ground; not uncommon near Perth, as at Glenfarg, &c.; in summer and autumn; James Menzies.
- Ascophanus graminiformis* (Crouan) Bond.—Tay. On cow-dung; Parkfield, Perthshire; in April; James Menzies.
- Pseudopeziza alismatis* (Phil. & Trail) Sacc.—Clyde. On leaves of *Alisma Plantago*, Dougalston, Dumbartonshire; in summer; D. A. Boyd (II., 112).
- Mollisia agnosa* (B. & Br.) Phil.—Tay. On dead willow-branches; Kinfauns, Perthshire; in February; James Menzies.
- M. petiolaris* (A. & S.) Sacc.—Clyde. On decaying petioles of *Acer Pseudoplatanus*; Kilbirnie, Ayrshire; in spring and early summer; D. A. Boyd (II., 112).
- Belonidium aretii* (Phil.) Mass.—Tay. On dead stems of *Arctium*; Stornontfield and Scone Den, Perthshire; in June; James Menzies.
- Helotium oehraceum* (Grev.) Berk.—Tay. On dead twigs of hawthorn; Quarrymill, Perthshire; in August and September; James Menzies.
- H. tetraasporum*, Rea.—Tay. On dry culms of *Phalaris arundinacea*; near Perth; in October; James Menzies (I., 130).
- H. marchantiæ*, Fr., var. *conocephali*, Boyd.—Clyde. On thallus of *Conocephalus conicus*; Dalry, Ayrshire; in winter and spring; D. A. Boyd (I., 113; II., 112).
- Sclerotinia baccarum*, Rehm.—Clyde. Apothecia on withered fruits of *Vaccinium Myrtillus*; Campsie Hills, Stirlingshire; in May; D. A. Boyd (I., 112).
- Erinella pommeranica*, Ruhl.—Clyde. On bark of *Pinus sylvestris*; Rothesay, Buteshire; in August; W. H. Wilkinson (I., 113).

- Lachnea aseoboloides* (Bert.) Mass.—Tay. On the excrement of some animal ; Muirhall Quarry, Perthshire ; in September ; James Menzies.
- L. umbrorum* (Cooke) Gill.—Tay. On damp naked soil ; Seone, Kinfauns, and Quarrymill, Perthshire ; in August and September ; James Menzies.
- L. dalmeniensis* (Cke.) Phil.—Tay. On damp soil under nettles. Gannoehy and Quarrymill ; in September ; James Menzies.
- L. cretea* (Cke.) Phil.—Tay. On chareoal ; Kinfauns and Parkfield ; in August and September ; James Menzies.
- Desmazierella acieola*, Lib.—Tay. On decaying leaves of *Pinus sylvestris* attached to branches lying on the ground ; Kinfauns, Perthshire ; in February ; James Menzies (IV., xii.).
- Dasyscypha aeutipila* (Karst.) Sacc.—Tay. On dead grass ; Dunkeld ; C. M'Intosh.
- D. aeuum* (A. & S.) Sacc.—Tay. On dead leaves of *Pinus sylvestris* attached to branches lying on the ground ; common near Perth at all seasons ; James Menzies (IV., 12).
- D. campylotrichia*, A. L. Smith.—Tay. On stems of thistle ; Seone, Perthshire ; in October ; James Menzies (I., 112).
- D. melaxantha* (Fr.) Mass.—Tay. On dead branches (probably pine) lying on the ground ; Perthshire ; 1st July 1909 ; C. M'Intosh.
- Sepultaria semiimmersa* (Karst.) Mass.—Tay. On old cow-dung ; Parkfield, Perthshire ; in May ; James Menzies.
- Barlaea Persoonii*, Sacc.—Tay. On damp clay soil, especially where it is heaped up, as in quarries ; not uncommon near Perth ; abundant at the Falls in Quarrymill, Perthshire ; in July and August ; James Menzies.
- Humaria Phillipsii*, Cke.—Tay. On sandy soil near the margin of the Annaty Burn, Quarrymill, Perthshire ; in August and September ; James Menzies.
- H. Ooeardi* (Kalehbr.) Sacc.—Tay. On sodden wood, leather, and sacking, in all the smaller streams near Perth ; in July and August ; James Menzies.
- H. lechithina* (Cke.) Sacc.—Tay. On sodden wood in the Annaty Burn Perthshire ; in July, August and September ; James Menzies.
- Vibrissea truneorum* (A. & S.) Fr. —Clyde. On dead willow and heather in wet places ; Glen Falloch, Perthshire ; in July ; D. A. Boyd (II., 113).
- V. Guernisaei*, Crouan.—Clyde. On branches of willow submerged in running streams ; Glen Douglas, Dumbartonshire ; in summer ; D. A. Boyd (II., 114).
- Clavieps nigricans*, Tul.—Clyde. Sclerotia on inflorescence of *Scirpus palustris* ; Ardeer Sands, Ayrshire ; in autumn ; D. A. Boyd (II., 57).
- Myeosphaerella aseophylli*, Cotton.—Clyde. On conceptacles of *Ascophyllum nodosum* ; Ardrossan, Ayrshire ; in May ; D. A. Boyd (II., 136).
- Curreyella aucupariae*, A. L. Sm.—Clyde. On dead twigs of *Pyrus Aucuparia* ; Auchentiber Moss, Kilwinning, Ayrshire ; in autumn ; D. A. Boyd (II., 114).
- Pleospora equiseti*, A. L. Sm.—Clyde. On dead stalks of *Equisetum* ; Kilwinning, Ayrshire ; in January ; *Ibid.*
- Gnomonia riparia*, Niessl.—Solway. On dead rose-twigs ; Dalry, Kirkcudbrightshire ; G. F. Scott Elliot (I., 117).
- Diaporthe detrusa*, Fekl. —Clyde. On dead branches of *Berberis vulgaris* ; Dalmellington, Ayrshire ; in August ; D. A. Boyd (I., 117 ; II., 114).

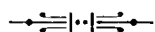
- Xylaria polymorpha* (Pers.) Grev.—Clyde. Glasgow Botanic Gardens ; June 1909 ; William Stewart (II., 138).
- Anixia truncigena*, Hoffm.—Tay. On roe-dung in a dense thicket of fir-trees ; Perthshire ; in September 1903 ; James Menzies (I., 117).
- Phyllosticta forsythiæ*, Sacc.—Clyde. On *Forsythia suspensa* ; Seamill, Ayrshire ; in August ; D. A. Boyd (I., 117 ; II., 114).
- Ascochyta philadelphi*, Sacc. & Speg.—Clyde. On living leaves of *Philadelphus coronarius* ; Seamill, Ayrshire ; in August ; D. A. Boyd (I., 118 ; II., 114).
- Septoria menthicola*, Sacc. & Letendre.—Clyde. On leaves of *Mentha arvensis* ; West Kilbride, Ayrshire ; in August ; D. A. Boyd (I., 118).
- Sporonema obturatum* (Fr.) Sacc.—Clyde. On dead leaves of *Calluna vulgaris* ; West Kilbride ; in December ; D. A. Boyd (II., 115).
- Glœosporium salicis*, West.—Clyde. On living leaves of *Salix* ; Beith, Ayrshire ; in September ; D. A. Boyd (I., 119 ; II., 115).
- Marssonina daphnes*, Sacc.—Twced. On fading leaves of *Daphne Mezereum* ; Traquair, Peeblesshire ; in October ; D. A. Boyd (I., 119 ; V., 151).
- Septoglœum salicinum*, Sacc.—Clyde. On living leaves of *Salix viminalis* ; roadside between Millhouse and Kilbride (par. of Kilfinan), Argyllshire ; in September ; D. A. Boyd (I., 119 ; II., 115).
- Pestalozzia funerea*, Desm.—Clyde. On dead leaves of *Phormium tenax* ; Hunterston, Ayrshire ; in September ; D. A. Boyd (II., 115).
- Ramularia violæ*, Trail.—Clyde. On living leaves of *Viola Rivinina* ; Stevenston, Ayrshire ; in August ; D. A. Boyd (I., 121 ; II., 115).
- Torula antennata*, Pers.—Clyde. On dead leaves of *Phormium tenax* ; Hunterston, Ayrshire ; in September ; D. A. Boyd (II., 115).
- Hormiscium splendens*, Kze.—Clyde. On a mossy stump ; West Kilbride, Ayrshire ; in August ; D. A. Boyd (II., 115).
- Stilbum tomentosum*, Schr.—Clyde. On *Trichia* ; Finlayston, Renfrewshire ; in August ; D. A. Boyd (II., 115).

ALGÆ.

New Records for "Clyde," reported by Robert Garry, B.Sc.
(III., 13, 14).

- Bulbochæte mirabilis* (Wittr.). — Near the Mouse Water, Cleghorn, Lanarkshire.
- Microthamnion Kutzingianum*, Näg.—Ailsa Craig.
- Microspora floccosa* (Vauch.) Thur.—Near Fairlie, Ayrshire.
- Spirogyra bellis* (Hassall). — Lochwinnoch, Renfrewshire.
- S. nitida* (Dillw.) Link.—North Dougalston Woods, near Milngavie, Dumbartonshire.
- Choaspis stictica* (Eng. Bot.) O. Kunze.—Dunure, Ayrshire.
- Spirotænia condensata*, Bréb.—Balmaha, Loch Lomond.
- Desmidium Swartzii*, Ag.—Balmaha.

FUNGI FOUND IN THE NEIGHBOURHOOD OF CRIEFF, 1910.



Amanita—

mappa (Batsch) Fr.
muscaria (L.) Fr.

rubescens (Pers.) Fr.
spissa, Fr.

Amanitopsis—

vaginata (Bull.) Roze.

Lepiota—

clypeolaria (Bull.) Fr.
carcharias (Pers.) Fr.

granulosa (Batsch) Fr.

Armillaria—

mellea (Fl. Dau.) Fr.

mucida (Schrader) Fr.

Tricholoma—

equestre (L.) Fr.
resplendens, Fr.
rulilans (Schæff.) Fr.
vaccinum (Pers.) Fr.

imbricatum, Fr.
saponaceum, Fr.
virgatum, Fr.

Clitocybe—

nebularis (Batsch) Fr.
clavipes (Pers.) Fr.
candicans (Pers.) Fr.

infundibuliformis (Schæff.) Fr.
gilva, Pers.

Laccaria—

laccata (Scop.) Berk.

var. amethystina (Scop.) Berk.

Collybia—

radicata (Rehman) Fr.
maculata (A. & S.) Fr.
butyracea (Bull.) Fr.

confluens (Pers.) Fr.
tuberosa (Bull.) Fr.

Mycena —

stylobates, Pers.
epipterygia, Scop.
galopa (Pers.) Fr.
alcalina, Fr.

ammoniac, Fr.
rugosa, Fr.
polygramma (Bull.) Pers.
lutea (Pers.) Fr.

Omphalia—

muralis (Sow.) Fr.

Pleurotus—

porrigens (Pers.) Fr.

mitis (Pers.) Fr.

Pluteus—

cervinus (Schæff.) Fr.

Nolanea—

pascua (Pers.) Fr.

Pholiota—

squarrosa (Müll.) Fr.
 flammans, Fr.

marginata (Batsch) Fr.

Inocybe—

lanuginosa, Bull.
 rimosa (Bull.) Fr.

geophylla (Sow.) Fr.
 do. *var.* lilacina, Fr.

Flammula—

sapinea, Fr.

Galera—

hypnorum (Schrank) Fr.

Agaricus—

arvensis, Schæff.

Stropharia—

æruginea (Curt.) Fr.

Hypholoma—

sublateritium, Fr.
 capnoides, Fr.

fasciculare (Huds.) Fr.

Coprinus—

comatus (Fl. Dan.) Pers.
 micaceus (Bull.) Fr.

plicatilis (Curt.) Fr.

Cortinarius—

(Phlegmacium) triumphans, Fr.
 (Myxaciium) elatior, Fr.
 (Dermocybe) sanguineus, Fr.

cinnamomeus (L.) Fr.
 do. *var.* semisanguineus, Fr.

Paxillus—

involutus (Batsch) Fr.

Hygrophorus—

coccineus (Schæff.) Fr.
 miniatus, Fr.
 puniceus, Fr.
 conicus (Scop.) Fr.
 calyptræformis, Berk.

pratensis (Pers.) Fr.
 virgineus (Wulf) Fr.
 ovinus (Bull.) Fr.
 hypothejus, Fr.

Lactarius—

terminosus (Schæff.) Fr.
 turpis (Weinm.) Fr.
 blennius, Fr.
 vellereus, Fr.

quietus, Fr.
 rufus (Scop.) Fr.
 glyciosmus, Fr.
 nitissimus, Fr.

Russula—

nigricans (Bull.) Fr.
 cyanoxantha (Schæff.) Fr.
 fellea, Fr.

emetica, Pers.
 ochroleuca, Pers.

Cantharellus—

cibarius, Fr.

aurantiacus (Wulf) Fr.

Marasmius

peronatus (Bolt.) Fr.

androsaceus (L.) Fr.

Boletus—

luteus, L.
 flavus, With.
 chrysenteron, Bull.
 subtomentosus, L.
 variegatus, Swartz.

badius, Fr.
 pachypus, Fr.
 edulis, Bull.
 scaber, Bull.

Polyporus—

frondosus, Fr.
 giganteus, Fr.
 hispidus, Fr.

betulinus (Bull.) Fr.
 caesus, Fr.

Fomes—

annosus, Fr.

Polystictus—

abietinus (Dicks.) Fr.

versicolor (L.) Fr.

Poria—

vaporaria (Pers.) Fr.

Trametes—

mollis, Fr.

Dædalea—

quercina (L.) Pers.

Hydnum—

repandum, L.

rufescens, Pers.

Stereum—

hirsutum (Willd.) Pers.
 purpureum, Pers.

rugosum, Pers.
 spadiceum (Pers.) Fr.

Peniophora—

incarnata (Cke.) Mass.

Clavaria—

cristata, Holmsk.
 rugosa, Bull.

argillacea, Fr.
 vermicularis, Scop.

Næmatelia—

encephala, Fr.

Calocera—

viscosa (Pers.) Fr.

Dacryomyces—

deliquescent (Bull.) Duby.

Lycoperdon—

gemmatum, Batsch.

pyriforme, Schæff.

Scleroderma—

vulgare, Fl. Dan.

Ithyphallus—

impudicus (L.) Fisch.

Mutinus—

caninus, Fr.

Sphærobolus—
stellatus, Tode.

Crucibulum—
vulgare, Tul.

Cystopus—
candidus (Pers.) Lév. On *Capsella Bursa-pastoris*

Plasmopara—
nivea (Ung.) Schröt. On *Ægopodium Podagraria*.

Bremia—
lactucæ, Regel. On *Senecio vulgaris*.

Peronospora—
grisea (Ung.) De Bary. On *Veronica Beccabunga*.

Protomyces—
macrosporus, Ung. On *Ægopodium Podagraria*.
pachydermus, Thüm. On *Taraxacum officinale*.

Ustilago—
violacea (Pers.) Winter. On *Stellaria graminea*.

Urocystis—
anemones (Pers.) Winter. On *Ranunculus repens*.

Uromyces—
trifolii (A. & S.) Winter. On *Trifolium repens*.
valerianæ (Schum.) Wint. On *Valeriana officinalis*.
rumicis (Schum.) Wint. On *Rumex Acetosa*.
alchemillæ (Pers.) Wint. On *Alchemilla vulgaris*.

Puccinia—
lapsanæ (Schultz) Plow. As Uredo on *Lapsana communis*.
violæ (Schum.) Wint. On *Viola Riviniana*.
pimpinellæ (Strauss) Wint. As Uredo on *Myrrhis odorata*.
menthæ, Pers. On *Mentha*.
rubigo-vera (DC.) Wint. As Uredo on *Holcus*, &c.
poarum, Nielsen. As *Æcidium* on *Tussilago Farfara*.
obtegens, Tul. On *Cnicus arvensis*.
centaureæ, Mart. On *Centaurea nigra*.
lychnidearum, Link. On *Lychnis dioica*.
arenariæ (Schum.) Wint. On *Arenaria trinervia*.
annularis (Strauss) Wint. On *Teucrium Scorodonia*.

Phragmidium—
fragariastrum (DC.) Schröt. On *Potentilla Fragariastrum*.
subcorticatum (Schränk) Wint. On *Rosa canina*.

Cronartium—
ribicolum, Deitr. On *Ribes nigrum*.

Melampsora—
farinosa (Pers.) Schröt. On *Salix Caprea*.
tremulæ, Tul. On *Populus tremula*.
populina (Jacq.) Lév. As Uredo on *Populus*.
hypericorum (DC.) Wint. As Uredo on *Hypericum pulchrum*.
betulina (Pers.) Wint. On *Betula alba*.
circeæ (Schum.) Wint. As Uredo on *Circea lutetiana*.
vacciniorum (Link) Wint. As Uredo on *Vaccinium Myrtillus*.

Coleosporium—

- tussilaginis, Lév. On *Tussilago Farfara*.
 senecionis (Pers.) Wint. As *Uredo* on *Senecio vulgaris*.
 campanulæ (Pers.) Wint. As *Uredo* on *Campanula rotundifolia*.

Uredo—

- polypodii, Pers. On *Cystopteris fragilis*.

Milesia—

- polypodii, B. White. On *Polypodium vulgare*.

Trochila—

- craterium, Fr. On dead leaves of *Hedera Helix*.
 lauro-cerasi, Fr. On dead leaves of *Prunus Lauro-cerasus*.

Stegia—

- ilicis, Fr. On dead leaves of *Ilex Aquifolium*.

Pseudopeziza—

- trifolii (Bern.) Fekl. On *Trifolium repens*.
 cerastiorum (Wallr.) Fekl. On *Cerastium triviale*.

Otidea—

- aurantia (Pers.) Mass. On the ground.

Dasyscypha—

- ealyeina (Schum.) Fekl. On dead bark of *Pinus sylvestris*.

Ciboria—

- oehroleuea (Bolt.) Mass. On dead branches of *Quercus Robur*.

Ascobolus—

- furfuraceus, Pers. On cow-dung.

Coryne—

- urnalis (Nyl.) Karst. On decaying trunks.
 sarcoides (Pers.) Tul. On dead bark.

Mitrulea—

- viridis (Pers.) Karst. On the ground.

Leotia—

- lubrica, Pers. On the ground.

Ocellaria—

- aurea, Tul. On dead bark of *Salix*.

Propolis—

- faginea (Schrad.) Karst. On dead bark of *Salix*.

Colpoma—

- quercinum (Pers.) Wallr. On dead twigs of *Quercus Robur*.

Lophodermium—

- pinastri (Schrad.) Chev. On dead pine-needles.

Dichæna—

- quercina (Pers.) Fr. Undeveloped state on bark of *Quercus Robur*.

Podosphæra—

- oxyacanthæ (DC.) De Bary. Conidial state on *Crataegus Oxyacantha*.

Erysiphe—

cichoracearum, DC. On *Arctium minus* and *Symphytum tuberosum*.
Martii, Lév. On *Lathyrus pratensis*.

Uncinula—

aceris (DC.) Sacc. On *Acer Pseudo-platanus*.

Microsphæra—

berberidis (DC.) Lév. On *Berberis vulgaris*.
grossulariæ (Wallr.) Lév. On *Ribes Grossularia*.

Cordyceps—

ophioglossoides (Ehrh.) Link. On *Elaphomyces variegatus*.

Nectria—

cinnabarina (Tode) Fr. On dead bark.

Dothidea—

sambuci, Fr. On dead twigs of *Sambucus nigra*.

Phyllachora—

trifolii (Pers.) Fekl. On *Trifolium repens*.
podagariæ (Roth) Karst. On *Egopodium Podagrarica*.

Cucurbitaria—

berberidis (Pers.) Gray. On dead branches of *Berberis vulgaris*.
spartii, De Not. On dead branches of *Cytisus scoparius*.
piceæ, Borthwick. On living buds of *Picea*.

Massaria—

inquans (Tode) Fr. On dead bark of *Acer Pseudo-platanus*.

Venturia—

alchemillæ (Grev.) B. & Br. On *Alchemilla vulgaris*.

Stigmatea—

Robertiani, Fr. On *Geranium Robertianum*.

Sphærella—

vaccinii, Cke. On *Vaccinium Myrtillus*.
runcis (Desm.) Cke. On *Rumex obtusifolius*.

Xylaria—

Hypoxylon (L.) Grev. On decaying stumps.

Elaphomyces—

variegatus, Vitt. In the ground.

Phyllosticta—

sambuci, Desm. On *Sambucus nigra*.
erysimi. On *Sisymbrium Alliaria*.
mercurialis, Desm. On *Mercurialis perennis*.

Cytispora—

lauro-cerasi, Fekl. On fallen leaves of *Prunus Lauro-cerasus*.
do. var. ramulorum, Sacc. On dead twigs of do.

Ascochyta—

philadelphici, Sacc. & Speg. On living leaves of *Philadelphus coronarius*.

Camarosporium

macrosporum (B. & Br.) Sacc. On dead branches of *Philadelphus coronarius*.

Septoria—

stellariæ, Rob. & Desm. On *Stellaria media*.
 podagrariæ, Lasch. On *Ægopodium Podagraria*.
 stachydis, Rob. & Desm. On *Stachys sylvatica*.
 urticæ, Desm. & Rob. On *Urtica dioica*.

Phleospora—

aceris (Lib.) Sacc. On *Acer Pseudo-platanus*.

Melasmia—

acerina, Lév. On *Acer Pseudo-platanus*.
 punctata, Sacc & Romm. On do.

Glœosporium—

ribis, Lib. On *Ribes nigrum*.
 fagi, Desm. & Rob. On *Fagus sylvatica*.
 betulæ, Lib. On *Betula alba*.

Thyrsidium—

hedericolum, De Not. On dead bark of *Hedera Helix*.

Marssonina—

juglandis (Lib.) Sacc. On leaves of *Juglans regia*.
 potentillæ (Desm.) Sacc. On *Potentilla Anserina*.
 rosæ, Trail. On leaves of *Rosa*.

Melanconium—

sphæroideum, Link. On dead bark of *Alnus glutinosa*.

Asterosporium—

Hoffmannii, Kunze. On dead bark of *Fagus sylvatica*.

Steganosporium—

piriforme (Hoffm.) Corda. On dead bark of *Acer Pseudo-platanus*.

Oidium—

leucoconium, Desm. On leaves of *Rosa*.
 monilioides, Link. On leaves of grass.
 quereinum, Thüm. On leaves of *Quercus Robur*.

Trichoderma—

lignorum (Tode) Harz. On decaying bark and wood.

Botrytis—

deprædans, Cke. On leaves of *Acer Pseudo-platanus*.

Ovularia—

veronicæ (Fekl.) Sacc. On *Veronica Chamædrys*.
 obliqua (Cke.) Oud. On *Rumex obtusifolius* and *R. Hydrolapathum*.
 sphæroidea, Sacc. On *Lotus uliginosus*.

Didymaria—

Ungeri, Corda. On *Ranunculus repens*.

Sepedonium—

chrysospermum (Bull.) Fr. On rotten *Boleti*.

Ramularia—

sambucina, Sacc. On *Sambucus nigra*.
 epilobii (Schn.) On *Epilobium montanum*.
 valerianæ (Speg.) Sacc. On *Valeriana officinalis*.
 calcea (Desm.) Ces. On *Nepeta Glechoma*.
 ajugæ, Sacc. On *Ajuga reptans*.
 urticæ, Ces. On *Urtica dioica*.

Polythrincium—

trifolii, Kze. & Schm. On *Trifolium repens*.

Cercospora—

mereurialis, Fekl. On *Mercurialis perennis*.

Coniothecium—

amentacearum, Corda. On dead bark of *Salix*.

betulinum, Corda. On dead bark of *Betula alba*.

Fumago—

vagens, Pers. On leaves of evergreens.

Isaria—

farinosa (Dieks.) Fr. On a dead lepidopterous pupa.

Tubercularia—

vulgaris, Tode. On dead bark.

ADDITIONAL RECORDS OF SCOTTISH CRYPTOGAMIC PLANTS, 1910.

PUBLISHED SOURCES OF RECORDS.

- I. Transactions of the British Mycological Society, Vol. III., Part 3 (1910).
- II. The Glasgow Naturalist, Vol. II. (1910).
- III. Do. do. Vol. III., No. 1 (1910).
- IV. Transactions and Proceedings of the Perthshire Society of Natural Science, Vol. V., Part 2 (1910)
- V. Transactions of the Edinburgh Field Naturalists' and Microscopical Society, Vol. VI., Part 3 (1910).

MUSCI.

Mnium riparium, Mitt.—Clyde. Blantyre Priory, Lanarkshire ; John R. Lee (II., 134).

FUNGI.

Psaliota Bernardii, Quel.—Found by Miss Alice Warrender among short grass, fifty yards from edge of sea cliffs, near Bettyhill, Sutherlandshire. Confirmed by Dr. René Maire, 1st Oct. 1910. New to Britain.

Hygrophorus pustulatus (Pers.) Fr.—Tay. Amongst spruce-leaves, on drained ground planted with spruce twenty years ago ; Inver, Perthshire ; 6th Oct. 1909 ; C. M'Intosh (I., 230).

Naucoria erinacea, Fr.—Tay. On wood of willow and rose ; James Menzies (IV., lix.).

Poria placenta, Fr.—Tay. On a Larch stump ; Inver, Perthshire ; 30th Aug. 1909 ; C. M'Intosh (I., 230).

Geaster rufescens, Pers.—Tay. On the ground, Rossie Priory, Perthshire ; 4th Oct. 1909 ; R. Dow (IV., lix.).

Sclerotinia baccarum, Rehm.—Forth. Sclerotia in withered berries of *Vaccinium Myrtillus*, Redford Woods, Currie, Midlothian ; Oct. 1909 ; D. A. Boyd (V., 196).

Dasyscypha globuligera, Fekl.—Tay. On dead decayed stems of heather and ash ; Inver, Perthshire ; 9th Jan. 1909 ; C. M'Intosh (I., 220).

Microglossum atropurpureum, Karst.—Clyde. Amongst grass, Corrie, Arran, Buteshire ; Oct. 1909 ; Miss Bertha Reid (I., 220).

Peronospora obovata, Bon.—Cromarty. On *Spergula arvensis*, Glen Urquhart, Inverness-shire ; Sept. 1908 ; D. A. Boyd (II., 93).

Phyllosticta syringæ, West.—Clyde. On *Syringa vulgaris*, Largs, Ayrshire, in summer and autumn ; D. A. Boyd (II., 95).

Ph. sambuci, Desm.—Forth. On *Sambucus nigra*, parish of Currie, Midlothian ; Oct. 1909 ; D. A. Boyd (V., 196).

Actinothyrium graminis, Kunze.—Clyde. On dead culms and leaves of *Molinia cerulea*, West Kilbride, Ayrshire ; *Ibid.*

Glucosporium salicis, West.—Forth. On living leaves of *Salix*, parish of Currie, Midlothian ; Oct. 1909 ; D. A. Boyd (V., 196).

Diplocadium penicillioides, Sacc.—Clyde. On dead *Polystictus versicolor*, Dalry, Ayrshire ; D. A. Boyd (II., 95).

ALGÆ.

Desmonema Wrangelii (Ag.) B. & F.—Forth. Swanston, Midlothian ; F. L. M'Keever (V., 241).

The following additions to the species recorded for "Clyde" have been reported by George Lunam (III., 25):—

Ædogonium undulatum (Bréb.) A. Br. Loch Ardinning, Stirlingshire.

Coleochæte scutata, Bréb. Loch Ardinning.

C. soluta, Pringsh. Loch Ardinning.

C. nitellarum, Jost. Under the entiele of a species of *Nitella*. Bute.

C. pulvinata, A. Br. Loch Ardinning.

Ulothrix subtilis, Kütz. Bute.

Hormospora ordinata, West & G. S. West. Loch Ardinning.

H. mutabilis, Bréb. Bute.

Zygnema anomalum (Hass.) Cooke. Bute.

Pleurotænium Ehrenbergii (Bréb.) De Bary. Loch Ardinning.

Euastrum bidentatum, Næg. Loch Ardinning.

Cosmarium reniforme (Ralfs) Arch. Loch Ardinning.

C. Meneghinii, Bréb., f. *octangularis*. Loch Ardinning.

C. quadratum, Ralfs. Bute.

Staurostrum dejectum, Bréb. Bute.

Chlorochytrium lemnae, Colm. Endophytic in *Lemna trisulca*. Possil, Lanarkshire.

Radiococcus nimbatus (De Wild.) Schm. Glen Falloch, Perthshire.

Protoderma viride, Kütz. Glen Falloch.

- Scenedesmus obliquus* (Turp.) Kütz. Glen Falloch.
Ineffigiata neglecta, West & G. S. West. Loch Ardinning.
Palmodactylon varium, Näg. Lochwinnoch, Renfrewshire.
Chlorobotrys regularis (West.) Bohl. Lochwinnoch.
Stigonema turfacenm. Glen Falloch.
Hapalosiphon hybernicus, West & G. S. West. Glen Falloch.
Seytonema mirabile (Dillw.) Thur. Glen Falloch.
Nostoc macrosporum, Menegh. Glen Falloch.
N. microscopicum, Carm. Bute.
Gleotrichia pisum, Thur. Glen Falloch.
Gleocapsa Ralfsiana (Hass.) Kütz. Glen Falloch.
Chroococcus turgidus (Kütz.) Näg. Glen Falloch.

